#### PROJECT DESCRIPTION (MOT PHASE 3B)

#### I. GENERAL:

THIS PHASE OF THE PROJECT INVOLVES THE INSTALLATION OF PROPOSED SIDEWALK AND CURB AND GUTTER ALONG WESTBOUND MD 175 AND AROUND THE NORTHEAST QUADRANT OF MD 175 AND 26TH STREET/DISNEY ROAD INTERSECTION.

TRAFFIC SIGNALIZATION WORK DURING THIS PHASE OF THE ROADWAY RECONSTRUCTION WILL ENTAIL THE INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, WITH ACCESSIBLE PUSHBUTTON AND SIGNS, IN THE NORTHEAST QUADRANT OF THE MD 175 AND 26TH STREET/DISNEY ROAD INTERSECTION. PEDESTRIAN PHASE SHALL ONLY BE PROVIDED FOR THE SOUTH AND WEST LEGS OF THE INTERSECTION.

MD 175 (ANNAPOLIS ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

## II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE, WITH THE MD 175 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT-TURN PHASES SHALL BE PROVIDED FOR BOTH APROACHES OF MD 175. 26TH STREET/DISNEY ROAD SHALL OPERATE IN A SPLIT-PHASED MODE AND A PEDESTRIAN PHASE SHALL BE PROVIDED FOR THE SOUTH AND EAST LEGS OF THE INTERSECTION.

AUDIBLE PUSHBUTTON FUNCTION IS AS FOLLOWS:

1. When the pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message:

WEST LEG: "Wait to cross Annapolis at Disney and 26th, Wait." SOUTH LEG: "Wait to cross 26th at Annapolis, Wait.

2. When the "WALK" phase begins, the pushbutton unit will provide a rapid tick, which will last for the duration of the "WALK" phase.

#### PROJECT CONTACTS:

MS. KIMBERLY: TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 841-1019

MR. JAMES FOLDEN, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 841-1031

MR. JOHN S. MAYS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 841-1013

MR. MIKE HUBER, UTILITY ENGINEER PHONE: (410) 841-1039

MR. GUS PAYNE, CONSTRUCTION INSPECTION PHONE: (443) 572-5234

MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP PHONE: (410) 787- 7652

MR. SONNY BAILEY, CHIEF - SIGN SHOP PHONE: (410) 787-7676

MS. JACQUELINE SCHULTZ - BGE PHONE: 410-470-8448

### EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY QUANTITY DESCRIPTION CODE

1.9 SF FLAT SHEET ALUMINUM SIGNS CONSISTING OF: 973023

> 1 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "PUSH BUTTON TO CROSS ANNAPOLIS ROAD"

> $(9"\times15")$  POLE-MOUNTED 1 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "PUSH BUTTON TO CROSS DISNEY ROAD"  $(9"\times15")$  POLE-MOUNTED

## EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR DESCRIPTION CATEGORY QUANTITY

CODE		
	4 1 0	DEMONE AND DISPOSE OF EVICTING CONIDMENT
800000	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
800000	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON & SIGN
800000	2 EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
801004	0.4 CY	CONCRETE FOR SIGNAL FOUNDATIONS
802501	150 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	30 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHE
805135	420 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHE
805150	45 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
805155	80 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
811001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	1.9 SF	INSTALL OVERHEAD SIGN
818004	2 EA	10' BREAKAWAY PEDESTAL POLE
837001	1 EA	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH
861105	330 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	360 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

## EQUIPMENT LIST 'C'

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINETS. THE CABINETS AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE

C.D

- 2 CONDUCTOR NO. 14 AWG ELEC, CABLE

- NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

WIRING KEY

- RE-WIRED EXISTING PEDESTRIAN HEAD FOR SOUTH LEG OF INTERSECTION (5 COND. 14 AWG ELEC. CABLE)

RE-WIRED EXISTING PUSHBUTTON FOR SOUTH LEG OF INTERSECTION(2 COND, 14 AWG ELEC, CABLE)

RE-WIRED EXISTING PEDESTRIAN HEAD FOR EAST LEG OF INTERSECTION (5 COND. 14 AWG ELEC. CABLE)

RE-WIRED EXISTING PUSHBUTTON FOR EAST LEG OF INTERSECTION(2 COND. 14 AWG ELEC. CABLE)

- GROUND ROD (3/4" DIA. x 10' LENGTH)

PHASE 3B

PHASE CHART

R | ⊲R- | ⊲R- | R | R | ⊲G/G | ⊲G/G | G |

WIRING DIAGRAM

R R R

\_\_\_\_\_\_R | R | R | Y |

FL/RA | FL/RA | FL/Y | FL/Y | FL/RA | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | DARK | DARK | DARK |

R R R DW DW DW DW

G | ⊲R- | ⊲R-

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1 & 5 Change

Phase 2 & 6

Ped.Clear

3 Change

Phase 4 ALT Ped. Clear

4 ALT Change

Operation

Phase 3

Phase 4

2 & 6 Change



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 175 (ANNAPOLIS ROAD) AT 26TH STREET / DISNEY ROAD

FORT MEADE, MD

# MOT PHASE 3B - GENERAL INFORMATION PLAN SCALE 1" = 20' DATE <u>OCTOBER 2010</u> CONTRACT NO. <u>AA580A21</u>

CENTURY ENGINEERING CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MD 21031

23299.36

REVISION 'D'

DESIGNED BY	ENB /MAR	COUNTY_	ANNE A	RUNDEL			
DRAWN BY	ENB	LOGMILE _	02017507.10				
CHECKED BY	MAR /NR	TIMS NO.	J_969				
F.A.P. NO. <u>AC/PLHD-STP-TiP-3617(11)E</u> TOD NO							
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TS NO.1959D3B-GI	DRAWING SG-16	<b>i.3</b> OF 26	SHEET NO.	136 OF 195			

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